Control Number: GOOG-AT-MDL-001413738

All Custodians: Nirmal Jayaram, Tobias

Maurer

Custodian: Nirmal Jayaram

Date/Time Created: 8/26/2020 12:54 AM

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MODIFICATION DATE: 1/8/2021 8:09 PM

File Name: Bidding out

architecture_1Lqs2ZMPtQj41i U1sRvZ5RWJYcO13V4cnZLLBYaJL

VMw. docx

Bidding out architecture

Note: please use gBid uber doc for future discussions

Note: Given we are looking into the tech/architecture way ahead of PRD, this doc is kept as open as possible. As we get some product side things cleared out, some of the stuff in the doc can be trimmed/adjusted accordingly.

Requirements / assumptions

1. 2. 3. 4. 5. 6. 7. 8.

Other requirements/goals

•

Terminology

- Partner: This refers to 3rd party exchange. Following words are used interchangeably in this doc: 3p exchange, 3p partner, partner, exchange.
- Publisher: This is the app owner who signed up to ad platforms to get ads. In this doc's context,

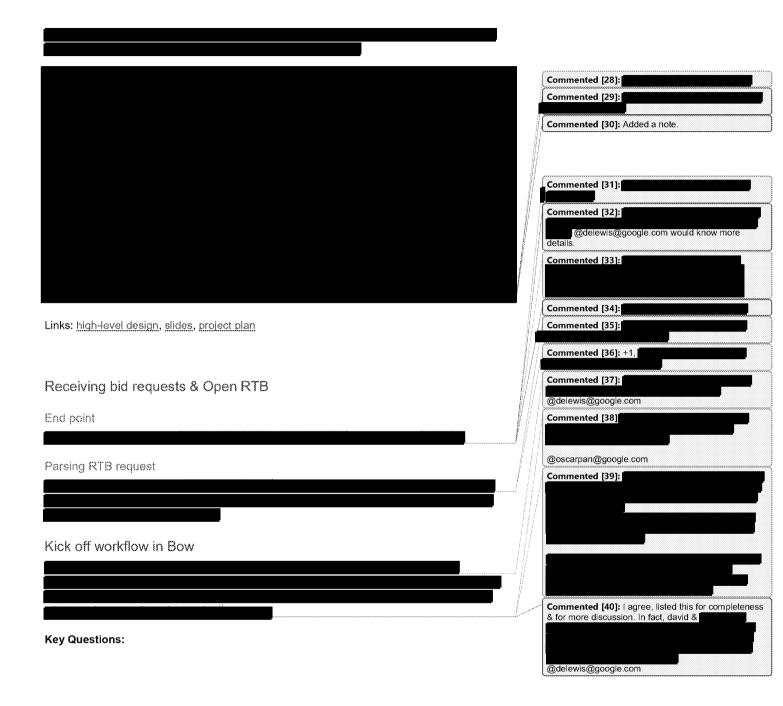
publisher can have multiple apps.

Commented [1]: @santoshkc@google.com Added this. Can you review my claims on AwBid for correctness? Commented [3]: Commented [4]: Commented [5]: Geoff, thanks -Commented [6]: Commented [7]: Santosh .. wrt one thing to keep in Commented [8]: Commented [9]: Santosh, basic question: how would Commented [10]: Commented [11]: yeah, thanks for clarifying! Commented [12]: @gfb@google.com Can you please confirm these two assumptions? Assigned to Geoff Beresford Commented [13]: Commented [14]: on the second point, can we clarify on the doc that they will need to coexist in the transition, but once a publisher/app is fully migrated $t\bar{\mathbf{t}}$ Commented [15]: Clarified in the description. Commented [16]:



Integration with publisher & 3p exchange partners

Signal collection & rendering using GMA SDK Commented [21]: how are the signals passed to us right now? Commented [22]: Commented [23]: We can reuse this work, as is, for Bidding out. Commented [24]: Commented [25]: @eleichtenschl@google.com Commented [26]: Commented [27]:



Work Estimate:

Backend serving changes

Commented [41]: Significant portion of the serving changes are covered in above sections. The remaining changes are more of integration in nature. Modeling the request Commented [42]: +1 Commented [43]: Commented [44]: Commented [45]: Commented [46] **Key Questions:** Work Estimate: Commented [47]: don't think we should reuse this, **Publisher Controls** very confusing. Commented [48]: what is GTM? • Process / Fetch publisher controls (if any) that we want to support in this product. Commented [49]: Go to market timeline. **Key Questions:** Commented [50]: Commented [51]: Added into the questions. Work Estimate: Commented [52]:

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User Profiles • •	
Key Questions:	Commented [53]: basic questions -
Work Estimate:	
Other Considerations	
•	Commented [54]:
	Commented [56]:
	Commented [57]: laiso don't understand why this is hard
Other work	
•	
Key Questions:	
Work Estimate:	
Logging Changes	

•		
Key Questions:		
Work Estimate:		
Creative Fetch / Service		
	Commented [58]:	
	Commented [59]:	
	Commented [60]	
	Commented [61]:	F
Key Questions: •		
	Commented [62]:	F
Work Estimate:	@delewis@google.com	
Clearing price LIOP propagation		
Clearing price, HOB propagation	Commented [63]:	
Questions:		
Work Estimate:		

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Desired tail latency

Key Questions:

Work Estimate: Core constraints Partner Reporting & Payment **Key Questions:** Commented [64]: Work Estimate: Commented [65]: Publisher Reporting & Payment Commented [66]:

Commented [67]:

Work Estimate: • •	
Quality / modeling	Commented [68]
Key Questions:	
Work Estimate:	
UAC <tbd></tbd>	
GDN <tbd></tbd>	
DV3 <tbd></tbd>	
Bidding Models <tbd></tbd>	
Key Questions:	
Work Estimate:	

Work Estimate

Area	Work estimate	Notes
Partner Integration		
1 1		
1		

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